

TABLE 77. Black, non-Hispanic U.S. citizen and permanent resident full-time graduate students in science, engineering, and health fields in all institutions and in historically black colleges and universities, by field and sex: 2004–08

Field	Male						Female					
	2004	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008	2004	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008
All institutions	6,347	6,399	6,768	6,776	6,895	7,384	12,153	12,341	13,168	12,849	13,183	14,519
Science and engineering	5,458	5,503	5,727	5,825	5,974	6,422	8,564	8,683	9,131	9,178	9,554	10,417
Science	4,189	4,196	4,283	4,402	4,528	4,891	7,873	8,021	8,435	8,432	8,780	9,665
Agricultural sciences	115	127	108	99	102	122	183	183	199	184	183	189
Biological sciences	681	710	755	789	795	851	1,560	1,608	1,663	1,697	1,714	1,794
Communication <sup>a</sup>	ne	ne	ne	ne	76	108	ne	ne	ne	ne	203	227
Computer sciences	511	468	459	535	529	521	277	296	279	290	284	282
Earth, atmospheric, and ocean sciences	90	70	77	83	81	92	104	100	109	113	110	115
Family and consumer science/ human science <sup>a</sup>	ne	ne	ne	ne	20	19	ne	ne	ne	ne	122	136
Mathematical sciences	202	224	210	227	227	230	190	190	210	196	195	172
Multidisciplinary/interdisciplinary studies <sup>a</sup>	ne	ne	ne	ne	49	57	ne	ne	ne	ne	82	112
Neuroscience <sup>a</sup>	na	na	na	na	23	27	na	na	na	na	32	33
Physical sciences	442	414	402	375	375	394	360	370	383	397	395	392
Psychology	554	548	576	552	548	665	2,207	2,308	2,410	2,358	2,329	2,758
Social sciences	1,594	1,635	1,696	1,742	1,703	1,805	2,992	2,966	3,182	3,197	3,131	3,455
Engineering	1,269	1,307	1,444	1,423	1,446	1,531	691	662	696	746	774	752
Health <sup>a</sup>	889	896	1,041	951	921	962	3,589	3,658	4,037	3,671	3,629	4,102
Historically black colleges and universities	1,081	1,123	1,241	998	1,012	959	2,182	2,164	2,175	1,842	1,883	1,892
Science and engineering	933	953	1,044	903	916	870	1,560	1,549	1,514	1,396	1,429	1,448
Science	763	764	802	684	684	637	1,452	1,459	1,402	1,280	1,302	1,315
Agricultural sciences	54	58	43	33	33	55	85	85	92	77	77	103
Biological sciences	136	122	117	113	117	121	295	268	248	251	259	270
Communication <sup>a</sup>	ne	ne	ne	ne	10	7	ne	ne	ne	ne	28	21
Computer sciences	76	72	78	56	56	52	38	52	46	48	47	49
Earth, atmospheric, and ocean sciences	22	18	20	16	16	11	16	16	20	14	14	25
Family and consumer science/ human science <sup>a</sup>	ne	ne	ne	ne	2	1	ne	ne	ne	ne	11	10
Mathematical sciences	31	37	37	45	45	35	30	35	48	39	39	22
Multidisciplinary/interdisciplinary studies <sup>a</sup>	ne	ne	ne	ne	6	5	ne	ne	ne	ne	7	7
Neuroscience <sup>a</sup>	na	na	na	na	0	0	na	na	na	na	0	0
Physical sciences	87	94	105	76	76	80	87	78	79	86	86	83
Psychology	54	71	81	64	64	58	322	330	284	281	281	246
Social sciences	303	292	321	281	259	212	579	595	585	484	453	479
Engineering	170	189	242	219	232	233	108	90	112	116	127	133
Health <sup>a</sup>	148	170	197	95	96	89	622	615	661	446	454	444
Percentage in HBCUs	17.0	17.5	18.3	14.7	14.7	13.0	18.0	17.5	16.5	14.3	14.3	13.0
Science and engineering	17.1	17.3	18.2	15.5	15.3	13.5	18.2	17.8	16.6	15.2	15.0	13.9
Science	18.2	18.2	18.7	15.5	15.1	13.0	18.4	18.2	16.6	15.2	14.8	13.6
Agricultural sciences	47.0	45.7	39.8	33.3	32.4	45.1	46.4	46.4	46.2	41.8	42.1	54.5
Biological sciences	20.0	17.2	15.5	14.3	14.7	14.2	18.9	16.7	14.9	14.8	15.1	15.1
Communication <sup>a</sup>	ne	ne	ne	ne	13.2	6.5	ne	ne	ne	ne	13.8	9.3
Computer sciences	14.9	15.4	17.0	10.5	10.6	10.0	13.7	17.6	16.5	16.6	16.5	17.4
Earth, atmospheric, and ocean sciences	24.4	25.7	26.0	19.3	19.8	12.0	15.4	16.0	18.3	12.4	12.7	21.7
Family and consumer science/ human science <sup>a</sup>	ne	ne	ne	ne	10.0	5.3	ne	ne	ne	ne	9.0	7.4
Mathematical sciences	15.3	16.5	17.6	19.8	19.8	15.2	15.8	18.4	22.9	19.9	20.0	12.8
Multidisciplinary/interdisciplinary studies <sup>a</sup>	ne	ne	ne	ne	12.2	8.8	ne	ne	ne	ne	8.5	6.3
Neuroscience <sup>a</sup>	na	na	na	na	0.0	0.0	na	na	na	na	0.0	0.0
Physical sciences	19.7	22.7	26.1	20.3	20.3	20.3	24.2	21.1	20.6	21.7	21.8	21.2

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Field	Male						Female					
	2004	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008	2004	2005	2006	2007old <sup>a</sup>	2007new <sup>a</sup>	2008
Psychology	9.7	13.0	14.1	11.6	11.7	8.7	14.6	14.3	11.8	11.9	12.1	8.9
Social sciences	19.0	17.9	18.9	16.1	15.2	11.7	19.4	20.1	18.4	15.1	14.5	13.9
Engineering	13.4	14.5	16.8	15.4	16.0	15.2	15.6	13.6	16.1	15.5	16.4	17.7
Health <sup>a</sup>	16.6	19.0	18.9	10.0	10.4	9.3	17.3	16.8	16.4	12.1	12.5	10.8

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

HBCUs = historically black colleges and universities.

<sup>a</sup> In 2007, GSS-eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of GSS-eligible units. "2007new" presents data as collected in 2007; "2007old" reflects data as they would have been collected under 2006 methodology. Science fields "communication" and "family and consumer science/human science" are newly eligible. Data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; these data may have been reported under other fields before 2007. "Neuroscience" is reported as a separate field of science in 2007new; these data were reported under health field "neurology" in 2007old and previous years. See appendix A, "Technical Notes," for more detail.

SOURCE: National Science Foundation/Division of Science Resources Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.